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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference				
03K099/PCT	FOR FURTHER ACTION	SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date(day/mo	1	day/month/year)	
PCT/KR2003/001586	07 AUGUST 2003 (07.0		2002 (10.08.2002)	
amended and are the basis i	al amination report has been preparation and an arrival and an arrival arr	red by this International Prelimiding this cover sheet. of the description, claims and/or taining rectifications made before	drawings which have been	
These annexes consist of a total	ofsheets.			
3. This report contains indications relating to the following items: I X Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application				
Date of submission of the demand Date of completion of this report				
10 MARCH 2004 (1	0.03.2004)	29 NOVEMBER 2004 (29.	11.2004)	
Name and mailing address of the IPEA/		orized officer		
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International aplication No.
PCT/KR2003/001586

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1	. Wit	th regard to the elements of the international application:*			
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1		pages	, as originally filed		
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1		the claims:			
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1		as amended (together wi	, as originally filed th any statment) under Article 10		
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2.	With the in The	th regard to the language, all the elements marked above were available or furnished to this a international application was filed, unless otherwise indicated under this item. ese elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Rul the language of publication of the international application(under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary expressions.	which is e 23.1(b)).		
3.	Wit	th regard to any nucleotide and/or amino acid sequence disclosed in the international additional additional additional additional application in written form.	application, the international		
	\Box	filed together with the international application in computer readable form.			
		furnished subsequently to this Authority in written form.			
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		The statement that the subsequently furnished written sequence listing does not go international applicationas as filed has been furnished. The statement that the information recorded in computer readable form is identical to the been furnished.			
1.		The amendments have resulted to the			
••		The amendments have resulted in the cancellation of:			
		the description, pages the claims, Nos			
		the claims, Nos the drawings, sheets			
		the drawings, sheets			
		This report has been established as if (some of) the amendments had not been made, si go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	nce they have been considered to		
	Replac in this and 70	cement sheets which have been furnished to the receiving Office in response to an invitation opinion as "originally filed." and are not annexed to this report since they do not conta 0.17).	under Article 14 are referred to iin amendments (Rules 70.16		
**.	* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.				
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INTERNATIONAL PRELIMINARY EXAMINATION

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V. Re	soned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
cit	ations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-22	YES
		Claims		NO
	Inventive step (IS)	Claims	1-7, 15-22	1770
		Claims	8-14	YES NO
	Industrial applicability (IA)	Claims	1-22	
l		Claims		YES
<u> </u>				NO

2. Citations and explanations (Rule 70.7)

D: KR2001-0095885 A (7 November 2001)

Claims 1-7 of the present invention relate to a method of managing ring-back sounds in a subscriber-based ring-back sound service, comprising: the first step of storing common ring-back sounds and reporting details of use of the common ring-back sounds to a ring-back sound management server, in each of Intellectual Peripherals(IPs); the second step of storing individual ring-back sounds and reporting details of use of the individual ring-back sounds to the ring-back sound management server, in each of large capacity storage devices connecting and interworking with one or more IPs; and the third step of statistically compiling the reported details of use of the common and individual ring-back sounds and determining whether to maintain storage of the common and individual ring-back sounds based up the statistically complied details, in the ring-back sound management server.

Claims 15-22 of the present invention relate to a method of changing ring-back sounds in a subscriberbased ring-back sound service, comprising: the first step of providing a first information about whether to substitute for an existing ring-back tone and a second information for performing routing to a ringback sound provision means, preset in a Home Location Register (HLR) at a time of registering a location of a terminating subscriber, from the HLR to corresponding terminating MSC; the second step of providing a ring-back sound to a corresponding originator or requesting a trunk call connection from the ring-back sound provision means in response to the provided first and second information when perceiving that an originating MSC requests a call connection to the terminating subscriber in the terminating MSC; the third step of searching for a ring-back sound code preset in connection with a phone number of the terminating subscriber after performing the trunk call connection in response to the request of the trunk call connection, and providing a ring-back sound corresponding to the searched ring-back sound code to the originator via the connected terminating MSC, instead of the ring-back tone, in a ring-back sound provision control means; the fourth step of requesting disconnection of the trunk call connection from the ring-back sound provision means when perceiving that the terminating subscriber answers the call in the terminating MSC, and disconnecting the trunk call connection in response to the request of the trunk call disconnection by the ring-back sound provision means; the fifth step of creating a message, including a special number, a terminating phone number and an originating phone number, based upon information of the special number selected by the originator while trying a phone call and transmitting the message to the HLR in the originating MSC; the sixth step of transmitting a message requesting change of a ringback sound code to the ring-back sound provision control means in response to the received message in the HLR; and the sixth step of transmitting a message requesting change of a ring-back sound code to the ring-back sound provision control means in response to the received message in the HLR; and the seventh step of substituting the ring-back sound code preset in connection with the terminating phone number for a ring-back sound code preset in connection with the originating phone number in response to the message requesting change of a ring-back sound code in the ring-back sound provision control

(Continued on Supplemental Sheet.)



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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box V.

2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS

The technical feature of claims 1-7, 15-22 is not disclosed in D. Thus claims 1-7, 15-22 are inventive under PCT Article 33(3).

Claims 8-14 are characterized in an originator's selecting a ring-back sound present from a ring-back sound presentation server; transmission of the ring-back sound present to a receiver's mobile terminal in a type of short message by means of a short message server; and the receiver's accepting of the ring-back sound present according to the calling-back information of said short message, which is similar to the technical feature of D wherein a client logs on a ring-back sound presentation server and requests to download a ring-back sound; the server transmits the requested ring-back sound file to the terminal appointed by the client by using SMS. Though D does not disclose the art of calling-back as disclosed in claims 8-14, to log on various contents using the calling-back function is considered conventional.

Thus, the subject matter of claims 8-14 does not involve an inventive step under PCT Article 33(3).

The industrial applicability of claims 1-22 is self-evident under PCT Article 33(4).